



The PES 101 unit shall always be connected to a filter separator to complete a vacuum system

PES 101

The PES Vacuum units meet the high demands from the industry due to its efficiency, reliability, ease of operation and maintenance giving excellent value for money.

The PES 101 units are a series of free standing vacuum units, to be used in conjunction with any type of filter separator. PES creates the vacuum and air volume needed for conveyance of bulk material or vacuum cleaning operation.

- Electrically powered vacuum pump of Roots type
- Designed for high vacuum systems (50%)
- As standard equipped with safety filter
- Temperature control and safety valve
- Rigid steel construction and insulated housing
- Complete electrical panel for start/stop and controls
- Low noise operation

OPERATION

All PES 101 units are designed for, and shall always be used together with a filterseparator. Vacuumed material shall not reach the PES unit but be collected and filtered in suitable model of filterseparator, depending on material to be transported. The benefit of this separate vacuum unit is it can be used in conjunction with any type of filterseparator. Connection to filterseparator is made through a flexible hose or a fixed steel pipe.

The unit is delivered with an electrical panel comprising all controls for start/stop and operation of the unit, as well as controlling the filtercleaning for selected filterseparator, i.e. filter cleaning, discharging, etc.

WHY PES-101

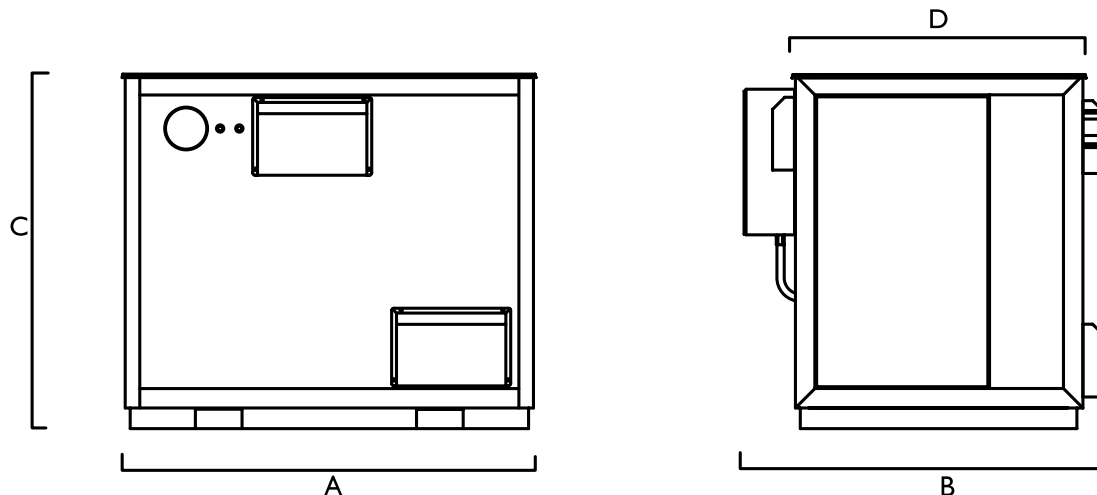
Highest demand for reliable operation, minimum of service, and easy to operate. Equipped with exhaust silencer and insulated housing for low noise emission. Safety device for; overheating, max vacuum, and motor over load protection is standard. Easy to transport/install with built-in holders for forklift.

APPLICATION

For use in any industrial application where reliable and rigid units are requested for creation of high vacuum and large air volume. PES 101 is designed for stationary installation, and can be used for both indoor and outdoor operation.

TYPICAL USERS

Manufacturers of Cement, Lime, Gypsum, Tiles, Ceramics, Chemicals, Plastics, Fertilizers and Alumina. Foundries, Steel mills, Quarries, Mines, Pulp- and Paper Industry, Incineration Plants, Thermo-electric Power Plants, Painting Contractors/Shipyards, Cleaning Contractors....



UNIT COMPONENTS

The main components of the PES 101 units are the Roots type vacuum pump and the electrical drive motor. Power from the electrical motor to the vacuum pump is transferred by a V-belt system. Inside the rigid and insulated steel housing, is also installed the silencer, safety filter, safety vacuum valve, and control sensors.

CONTROLS

Electrical panel for start/stop and control of the unit is placed outside of the housing. The front of the panel is equipped with push buttons for operation, indication lamps for operation mode / alarm, indication gauge for vacuum level, and emergency stop.

The controls also compromise the equipment for ATM filtercleaning, or if selected the Jet-pulse filtercleaning. Any selection of automatical discharge system for filterseparator is also built into the controls, as well as surveying systems for; motor overload, overheating vacuum pump, level control for filterseparator, timer stop or vacuumtimer stop of the unit. If fault indication from

any of these system, unit will stop and fault indication will light up. Sum alarm will be activated simutaniously.

MISCELLANEOUS

Dust emission: <10 mg/Nm³
 Hose connection: 1 x 152 mm
 Material: Steel SIS 1312
 Painting: Surface treatment and painting according to DISAB-TELLA standard, class M2.
 Colour, blue RAL 5007.

OPTIONS

- Other current than 3N x 400 V, 50 Hz
- Remote cable or wireless start/stop
- Dp – alarm, star-/delta starter
- Vacuum pump and motor heater, for winter operation
- Motor condensation heater protection
- Customer painting specification

| Item \ Model | | PES 101/30 | PES 101/37 | PES 101/45 |
|---|---|------------|------------|------------|
| Dimensions, mm | A | 1680 | 1680 | 1680 |
| (all dim. excl. frame) | B | 1490 | 1490 | 1490 |
| | C | 1480 | 1480 | 1480 |
| | D | 1180 | 1180 | 1180 |
| Weight, kg (approx.) | | 1600 | 1600 | 1730 |
| Max. Vacuum, mbar | | 500 | 500 | 500 |
| Air Volume, m ³ /h (at 100 mbar) | | 1750 | 2130 | 2520 |
| Electrical Motor, kW | | 30 | 37 | 45 |
| Voltage Frequency, V/Hz | | 400 / 50 | 400 / 50 | 400 / 50 |
| Safety Filter Surface, m ² | | 10 | 10 | 10 |
| Noise Level, dB(A) (at 1 m/5 m distance) | | 70/63 | 70/63 | 70/63 |
| Hose Pipe Connection, dia. mm | | 152 | 152 | 152 |

We reserve the right to alter any specifications without prior notice

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